NUCTECH

Airport Security Solution

NUCTECH

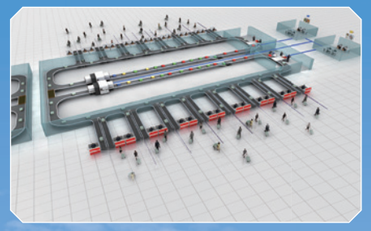
Company Profile

Nuctech Company Limited (Nuctech), derived from Tsinghua University and founded in 1997, is an advanced security & inspection solution and service supplier in the world. Relying on independent innovation and following the customers' demands, Nuctech provides the most advanced technology, superb products and integrated solutions in the security inspection industry to our customers from more than 150 countries and areas in the globe.

Covering Civil Aviation, Customs, Railway, Highway, Urban Railway, Logistics, Judiciary, Big Events and other security areas, Nuctech helps our customers in keeping the homeland security and people safe, which earns us great reputation. Currently, Nuctech has become an internationally famous brand in the security & inspection industry.

Airport Security Solution

Air Cargo Security Solution



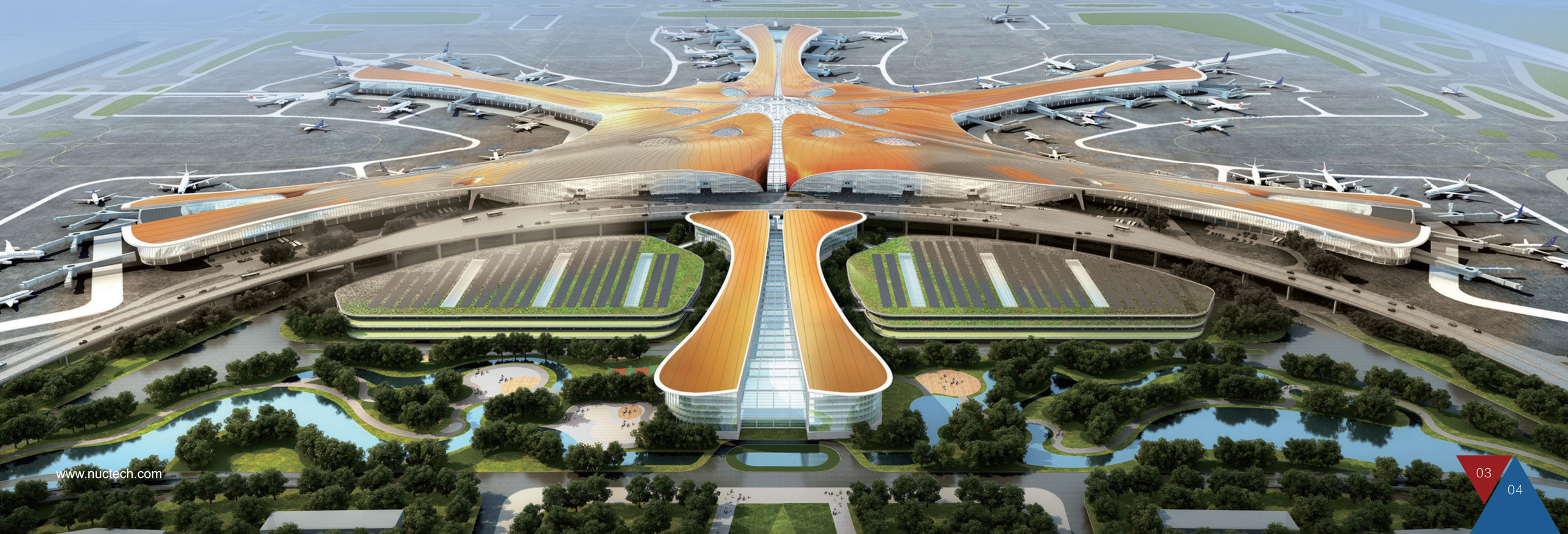
Checked Baggage Security Solution

Smart Checkpoint Security Solution

Airport Security Solution contains Departure Baggage Security Solution and Network Integrated System.

Departure Baggage Security Solution contains Checked Baggage Security Solution, Smart Checkpoint Security Solution, Air Cargo Security Solution.

This solution is based on the Security Equipment, depending on the information technology, utilizing the hardware and software resource and improving the security quality and efficiency. This solution guarantees the security for airport to the best, while helping the passengers obtain the best security comforts.



Checked Baggage Security Solution

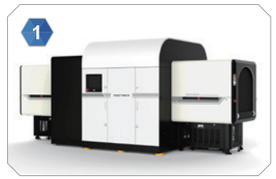
Because of the particularity of civil aviation transportation, the focus of checked baggage is the inflammable, explosive, corrosive and other forbidden articles for civil aviation.

CT in-line mode is the best checked baggage security solution with the highest security level and lowest execution cost.

The automatic recognition of CT inspection system for explosives has been certified by ECAC EDS Std.3 & Std.3.1, realizing the whole screening whether contraband is concealed in checked baggage or not.

This solution utilizes the automated alarm capability of CT inspection system, separates the baggage with the automatic resolution results, screens the suspicious baggage with more attentions, automatically sorts the baggage with the automatic and manual resolution results, and opens the baggage in a purpose. The large tunnel and high speed satisfy the demand of BHS, which benefits the easy connection with different manufacturers.

CT in-line mode contains the least number of security equipment, making full use of high-resolution color 2D image, CT slice images, and 3D color image. According to the dual-energy material discrimination technology, images are distributed reasonably with the automatic alarm results. Image information is fully used to shorten the resolution time for operators to efficiency improvement and cost decrease.



Automatic alarm for explosives (XT2100HS)

Junior resolution for safe baggage (2D image)

Senior resolution for suspicious & auto alarmed baggage (2D / CT slice / 3D image)

Workstation for open-needed baggage

Manual inspection system

Features

- Highest security level
- Most effective utilization of image resource
- Least number of security equipment
- Lowest execution cost for airport security
- Most efficient use of human resource, saving labor cost
- Highest throughput, 1800BPH for CT inspection system
- Directly replace AT/EDS2 equipment and no need for field change
- Integrated with BHS for any manufacturers
- Remote image resolution and centralized management

Features

- Rapidly improve the security level of airports
- Effectively utilize image resource
- Inline image resolution, releasing the operators' pressure
- High throughput, 860 BPH for CT inspection system
- Remote image resolution and central management

Conventional X-ray inspection system

Junior resolution for all baggage (2D image)

Automatic alarm for explosives (XT2080AD)

Senior resolution for suspicious baggage (2D / CT slice / 3D image)

Workstation for open-needed baggage

Manual inspection system for liquids

Checked Baggage Security Solution

CBRA (Checked Baggage Recheck Area) mode is another checked baggage security solution with a relative high security level and smaller field change.

CBRA mode makes full use of the existing conventional X-ray Inspection System in some airports. Only by increase or replace the equipment in recheck area, will the airport rapidly improve the security level. It also can realize the inline screen in recheck area. CT inspection system rechecks the baggage which cannot be differentiated by conventional X-ray Inspection System. Combined the clearer 2D image, CT slice images and high-resolution 3D image, CT equipment realizes the 360 degree screening without blind corner, improving the screened accuracy and decreasing the operators' working pressure in CBRA.

CBRA mode is a good way to prolong the traditional security Custom, making full use of present security equipment. There is no need to change the present field, but it can realize the inline screen, improving the security level of airports in some degree.

NUCTECH™ XT2100HS

X-ray CT Inspection System

Key Features

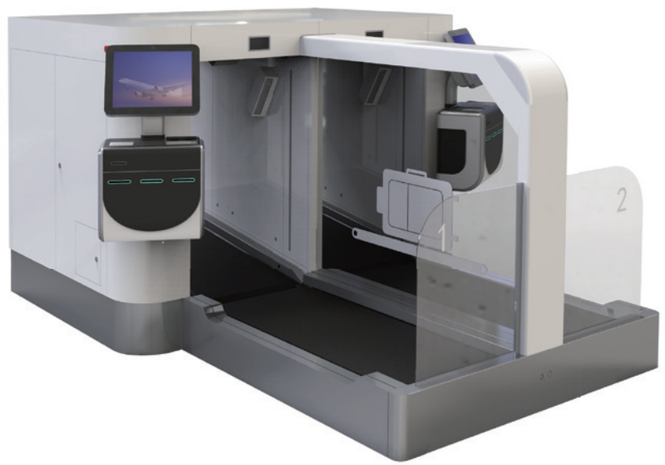
- **Certified Automatic Detection**
  ECAC EDS Std 3 & Std 3.1 certified
- **High Throughput**
  Up to 1800BPH
- **Larger Tunnel Size**
  Max.Width 1004mm, Max.Height 890mm

Key Features

- **Increasing the efficiency**
  Enhance the capacity
- **Reducing operational cost**
  Lower staff cost
- **High availability**
  24/7, easier maintenance

NUCTECH™ WeDrop

Self Baggage Drop System



NUCTECH™ XT2080AD

X-ray CT Inspection System

Key Features

- **Certified Automatic Detection**
  ECAC EDS Std 3 certified
- **Throughput**
  860BPH
- **Image Types**
  2D,3D and CT slice images

Key Features

- **Tunnel Dimension**
  1010mm(W) x 1005mm(H)
- **Wire Resolution**
  38 AWG
- **Steel Penetration**
  35 mm

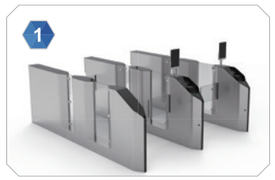
NUCTECH™ CX100100DB

X-ray Inspection System

Smart Checkpoint Security Solution

Smart Checkpoint Security Solution mainly contains CT Inspection System, Active Millimeter Wave body inspection system, Baggage Sorted System, Tray Return System, Network Integrated System, Intelligent Risk Management system, etc. All information in the passenger & carry-on baggage security process can be recorded, including the personal information, baggage screened image, body scanned result, video record. Those pieces of information are in a central management, realizing smart security and improving the security level.

There is no need for passenger to take out the liquid and electronic equipment, improving the security efficiency and shortening the security time. It provides the passengers the best security experience. The operators integrate multidimensional information, judge the risk level of the passenger, make full use of security resource, and realize the higher passenger throughput.

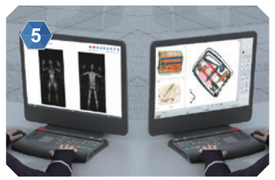


Boarding pass scanning for all passengers

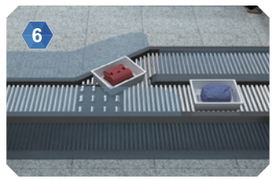
Divest Station

Automatic alarm for explosives (Kylin Ti)

Passenger inspection system (MW1000AA)



Remote on-screening resolution for passengers and baggage



Automatic Diverting

Workstation for baggage that needs to be opened

Manual inspection system for liquids and powders

Automated Tray Return System

Features

- Better security experience for passengers
- Higher passenger throughput
- Lower operational cost
- More efficient utilization of human resource, decreasing the humility upset
- Better working situation for operators, improving efficiency
- More effective inspection for new style contraband such as liquid explosives, ceramic knife
- Integrated with TRS, declining working stress
- Integrated with mobile terminal, realizing supervision anytime and anywhere

NUCTECH™ Kylin Ti

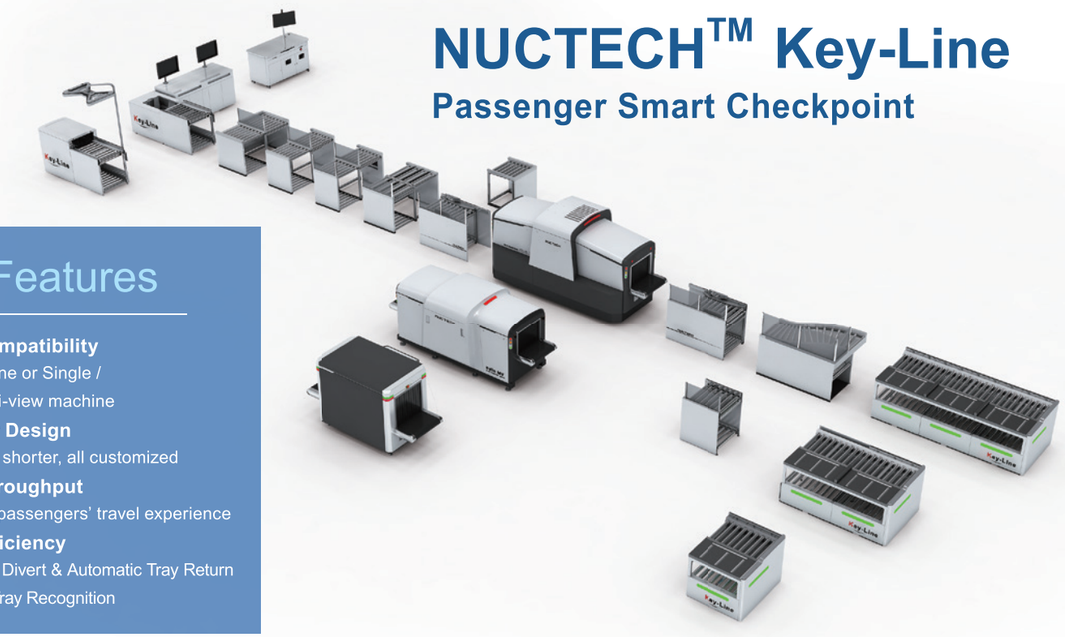
X-ray CT Inspection System

Key Features

- **Certified Automatic Detection**
  ECAC EDSCB Standard C3
- **Throughput**
  900TPH
- **Dual-Dual Energy Technology**
  Dual Energy & Dual (CT&X-ray) Imaging technology

NUCTECH™ Key-Line

Passenger Smart Checkpoint



Key Features

- **High Compatibility**
  CT machine or Single / Dual/Multi-view machine
- **Modular Design**
  Longer or shorter, all customized
- **High Throughput**
  Enhance passengers' travel experience
- **High Efficiency**
  Automatic Divert & Automatic Tray Return & Empty Tray Recognition

NUCTECH™ Kylin MV

X-ray CT Inspection System

Key Features

- **Certified Automatic Detection**
  ECAC EDSCB Standard C2
- **Throughput**
  900TPH
- **Mutli-view, More information**
  Four imaging views to gain information

NUCTECH™ CX6040D

X-ray Inspection System

Key Features

- **Certified Automatic Detection**
  ECAC EDSCB Standard C1
- **Tunnel Dimension**
  620mm(W) x 420mm(H)
- **Wire Resolution**
  40 AWG
- **Steel Penetration**
  38 mm

NUCTECH™ RT1003EB

Liquid Security Inspector

Key Features

- **Technology Principle**
  Raman spectroscopy
- **Detectable Threat Liquids**
  Flammables, explosives and precursors, toxic reagents, strong oxidizing and corrosive liquids, etc.

NUCTECH™ MW1000AA

Body Inspection Device

Key Features

- Safe Millimeter Wave Imaging Technology
- Capable of detecting Metal / Non-metal weapons, explosives, drugs, liquids, etc.
- Automatic threat recognition
- Meet ECAC SSc Type A Std. 1 & 2, CAAC A Level
- Foot metal detection

NUCTECH™ TR2000DC

Desktop Explosives and Narcotics Detector

Key Features

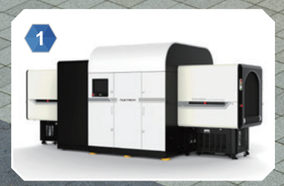
- **Explosive Library**
  TNT, C4, Tetryl, DNT, NG, PETN, RDX, Semtex, HMX, AN, TATP and black powder, etc.
- **Narcotics Library**
  Cocaine, Heroin, Morphine, Amphetamine, MDMA, Methamphetamine, pethidine, THC and Ketamine, etc.

NUCTECH™ LS1516BA

Liquid Security Inspection System

Key Features

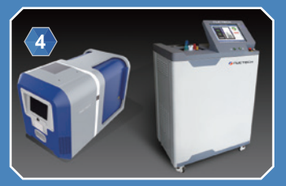
- **Concept of Operations**
  Screening individual container or multiple small containers in non-intrusive way
- **Max. Liquid Container Size**
  160mm(Diameter) x 500mm(Height)
- **Certified Automatic Detection**
  ECAC LEDS Type B Standard 3 and Type C Standard 2



Automatic alarm for explosives

Conventional X-ray inspection system for OOG baggage

Real-time on-screening resolution (2D / CT slice / 3D image)



Manual inspection system for liquids

Features

- Highest security level
- Automated discriminate explosives/narcotics
- Automated sort the containers
- Screening air cargo pallet/container with different sizes
- Multiple type scanning images generated by CT inspection system
- Integration with weighing scale, dock lift, RFID reader and air cargo handling system as options

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Air Cargo Security Solution

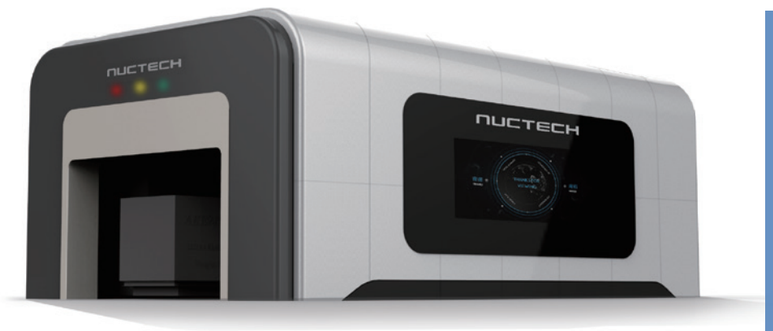
After 9-11, aviation security all over the world has been improved a lot. As ICAO (International Civil Aviation Organization) has set some new international standards for passenger and baggage security, the potential terrorists have to seek other approaches for successful attack. Air cargo becomes more and more attractive to them because of the relatively low defense level and low risk to attacker. Similar with Checked Baggage security, explosives with timer and/or other delay mechanism are most dangerous for aircraft.

Air Cargo Security Solution, designed for security check of air cargo, is to detect and/or identify explosives and other forbidden devices, articles or substances.

It combines CT inspection system and conventional X-ray screening equipment and Raman equipment. CT inspection system and conventional X-ray inspection equipment is used to scan the bulk cargo or smaller cargo pallets/container. Raman equipment and liquid inspection system can be used to perform detailed inspection.

NUCTECH™ CTitan

Consolidated Air Cargo CT Inspection System

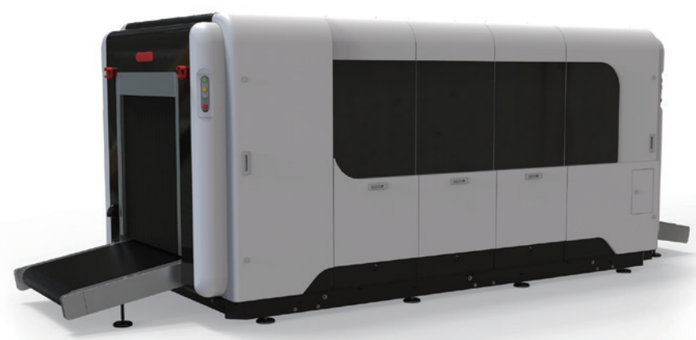


Key Features

- **Max. size of scanned object**
  Normal scanning
  3180mm(L) × 2440mm(W) × 2440mm(H)
  Fast scanning
  4730mm(L) × 2440mm(W) × 2440mm(H)
- **Scanning Method**
  Consolidated air cargo screening
- **Throughput**
  25 ULD unit/hour

NUCTECH™ ArgusG

X-ray Inspection System

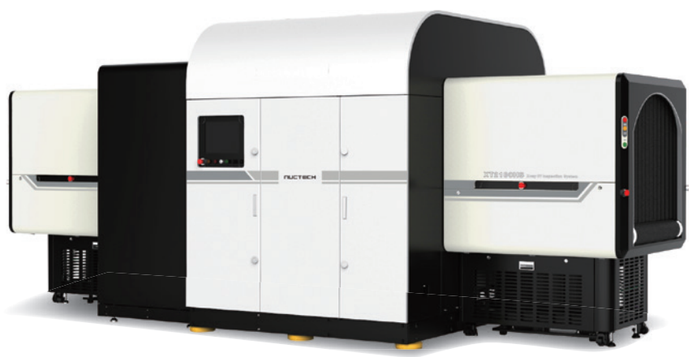


Key Features

- **Tunnel Dimension**
  1000mm(W) x 1000mm(H)
- **Wire Resolution**
  40 AWG
- **Steel Penetration**
  40 mm

NUCTECH™ XT2100HS

X-ray CT Inspection System

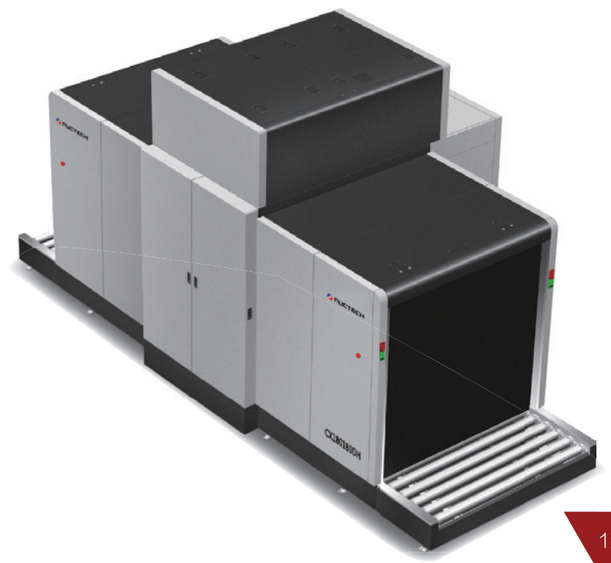


Key Features

- **Certified Automatic Detection**
  ECAC EDS Std 3 & Std 3.1 certified
- **High Throughput**
  Up to 1800BPH
- **Larger Tunnel Size**
  Max. Width 1004mm, Max. Height 890mm

NUCTECH™ CX180180DH

X-ray Inspection System



Key Features

- **Tunnel Dimension**
  1850mm(W)×1806mm(H)
- **Wire Resolution**
  34 AWG
- **Steel Penetration**
  70 mm

FlexOne™

Network Integrated System

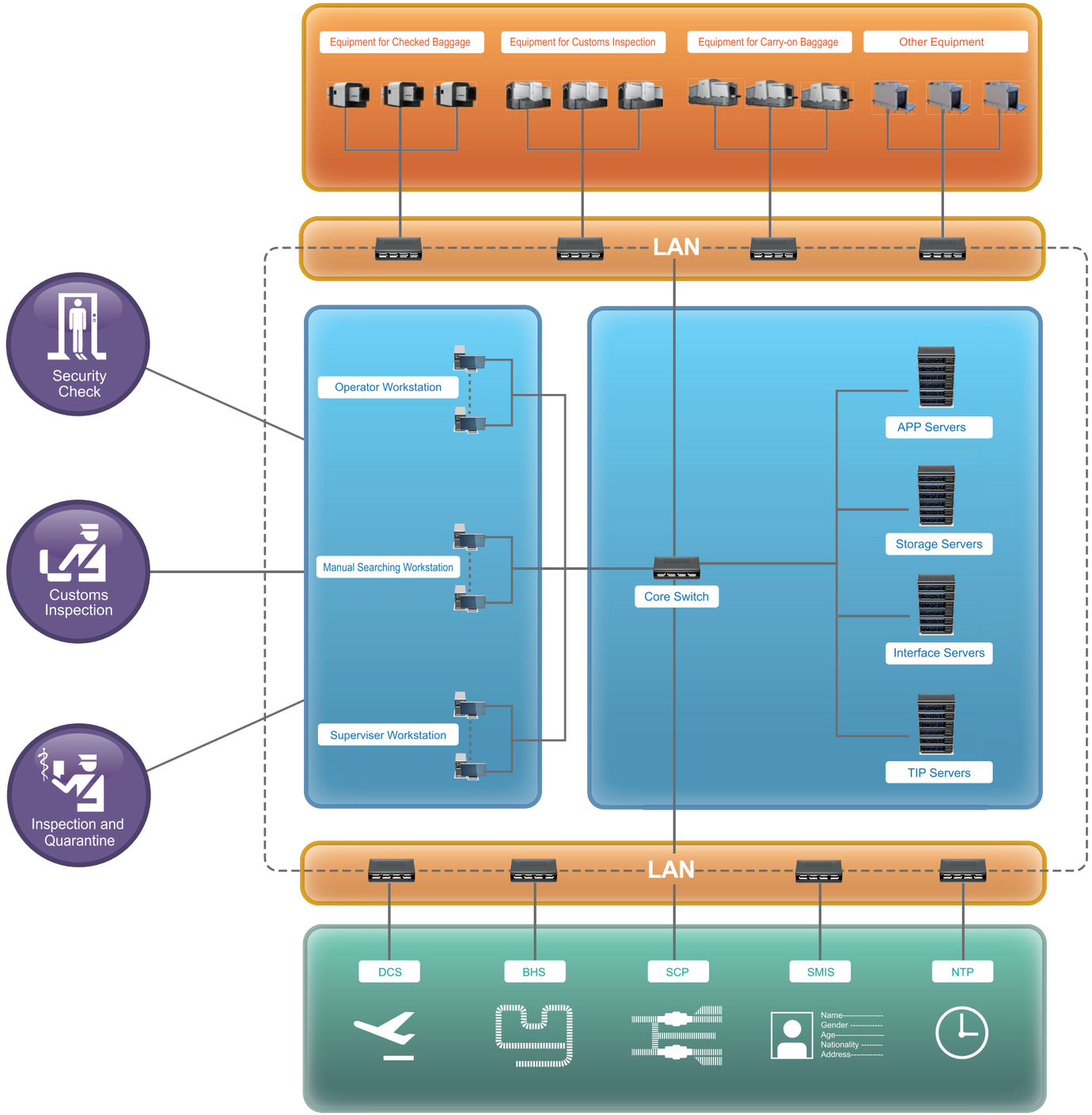
The FlexOne™ Network Integrated System is one solution to optimize the airport operator and equipment. This solution increases the flexibility and configurability for the personnel.

This system contains the data collection and storage subsystem, centralized management subsystem, centralized image analysis subsystem, network TIP subsystem, etc. It can connect with different style of equipment, such as checked baggage inspection equipment, passengers & carry-on inspection equipment, etc. It also communicated with outer system, including Departure Control system (DCS), Baggage Handling System (BHS), and Security for Management Information System (SMIS), and Network Time Protocol (NTP), etc.

Through the blameless security information platform, provide the centralized data process, storage, searching, and distribution, providing the hardware and software support for supervision operation state for equipment and analysis for passengers' data.

Features

- Configurable to the customized needs of each airport
- Lowest operation cost for human resource and equipment
- Hot and cold backup of critical network component
- Support network TIP
- Complete workstation supply
- Supports server virtualization



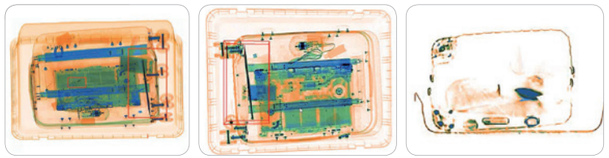
NUCTECH™ Kylin Ti

X-ray CT Inspection System

ECAC EDSCB STANDARD C3

NUCTECH™ Kylin is a newly developed CT (Computed Tomography) inspection system developed by NUCTECH COMPANY LIMITED. The system innovatively combines dual-energy material discrimination technology with spiral CT technology. With multidimensional information acquired by the system, it realizes automated explosives / liquid explosives/narcotics detection and alarms with a higher probability of detection and lower false alarm rates.

Designed with a larger tunnel size and a higher throughput, Kylin is an ideal security solution for airports, Customs, critical infrastructures, governmental buildings, public activities, etc.



Technical Features

- Automated detection of various contraband like explosives, liquid explosives and narcotics, satisfying security needs for airports, Customs, etc.
- Discriminating different materials and detecting various contraband like explosives and narcotics with higher probability of detection and lower false alarm rate, achieved ECAC EDSCB Standard C3.
- Inspect objects in a 360-degree view, free of blind corners and identify contraband easier and with a more intuitive image.
- Easier to detect contraband concealed in layers or placed at a particular angle.
- Generates high-resolution DR images, and identifies small thin objects like matches and lighter cores.
- With dual-energy CT technology, material information is acquired to colorize different materials with different colors in 3D images.
- Achieve the TIP in 3D images and provides effective methods for training and evaluating operators.
- Realizes remote resolutions, operations and diagnoses and shares data between different areas with the help of cloud computing technology.
- Modular design enables easy replacement of key components and convenient maintenance to reduce time and labor.
- Provides 3D image processing functions such as 3D measurement, 3D mark, 3D super penetration, etc., helping to make accurate decisions more effectively and efficiently.
- Capable of integrating and communicating with any brand of ATRS manufacturers.

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Technical Data

General Specifications

Tunnel Dimensions	624mm(W) x 420mm(H)
Max. Baggage Size	2000mm(L)×620mm(W)×420mm(H)
Conveyor Height	702~717mm
Conveyor Load	160kg
Throughput	900TPH
DR Wire Resolution	40AWG
DR Steel Penetration	40mm
CT Spatial Resolution	2mm line pair
Display Monitor	Color monitor / High resolution of 1920×1080

Image Processing System

DR Image Processing	Color / BW, Negative, Edge enhancement, General enhancement, Organic stripping, Inorganic stripping, High-energy Penetration, Pseudo-color, etc.
3D Image Processing	Color / BW, Negative, Edge enhancement, Super penetration, Organic stripping, Inorganic stripping, 3D mark, 3D measurement, Threat single display, etc.
ROI & Zoom	Selectable image zoom regions, 1~64 times enlargement
Data Storage Capacity	Up to 50,000 images

Installation Data

Dimensions / Weight	3780mm(L)×1330mm(W)×1685mm(H) / 2000kg
Operating Temperature / Humidity	0℃ ~ +40℃ / 5% ~ 95% (non-condensing)
Storage Temperature / Humidity	-40℃ ~ +60℃ / 5% ~ 95% (non-condensing)
Power Supply	220VAC / 110VAC (-15% ~ +10%), 50Hz / 60Hz±3Hz
Power Consumption	3.2kVA

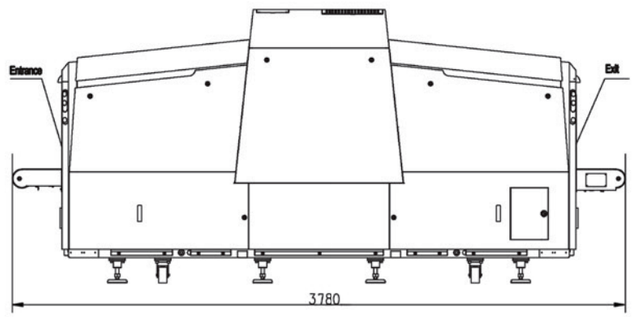
Note: Image performance specifications are based on test materials complying with CAAC standard.

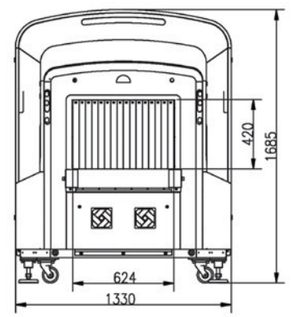
Health and Safety

X-ray Leakage	Conform to all the radiation protection standards recommended by IAEA, ICRP and WHO

System Functions

Date / Time display, Baggage counter, User management, System-on timers, Power-on self-test, Image Storage and query, Built-in diagnosis.





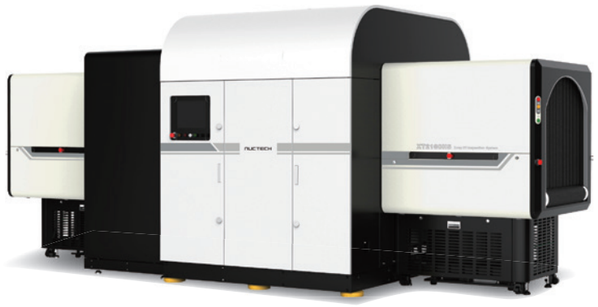
NUCTECH™ XT2100HS

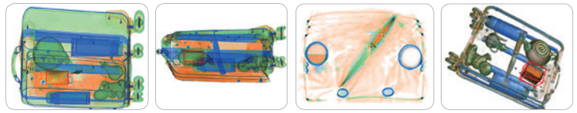
X-ray CT Inspection System

DfT STAC ECAC EDS STANDARD 3.1

The NUCTECH™ XT2100HS is a newly developed CT (Computed Tomography) inspection system developed by NUCTECH COMPANY LIMITED. The system innovatively combines dual-energy material discrimination technology with spiral CT technology. With multidimensional information acquired by the system, it automates explosives / liquid explosives/ narcotics detection and alarms with a higher probability of detection and lower false alarm rates.

Designed with a larger tunnel size and a higher throughput, the XT2100HS is an ideal security solution for airports, Customs, transportation stations, government buildings, public activities, etc.





Technical Features

- The throughput is up to 1800BPH (0.5m/s). Meter-wide tunnel satisfies most checked baggage inspection and BHS integration requirements and applies to various scenes.
- Discriminating different materials and detecting various contraband like explosives and narcotics with higher probability of detection and lower false alarm rate, achieved CAAC and ECAC EDS Std. 3.1.
- Inspecting objects in 360 degrees free of blind corners and identifying the contraband more easily with a more intuitive image.
- Easier to detect the contraband concealed in interlayers or placed in a particular angle.
- Generates high-resolution DR images in two different angles and displays tiny thin objects like matches and lighter cores more easily.
- Customized design according to BHS manufacturer's interface protocol, capable of integrating and communicating with any brand of BHS manufacturers.
- With the dual-energy CT technology, material information is acquired to colorize different materials with different colors in 3D images.
- Achieving the TIP in 3D images and providing effective methods for training and evaluating operators.
- Realizing remote resolutions, operations and diagnoses and sharing the data between different areas with the help of cloud computing technology.
- Modular design enables easy replacement of key components and convenient maintenance, reducing time and labor.
- Providing 3D image processing functions such as 3D measurement, 3D mark, 3D super penetration, etc., helping making decisions more effectively and efficiently.

Technical Data

General Specifications

Tunnel Dimensions	Max. Width: 1004mm, Max. Height: 890mm
Max. Baggage Size	2000mm(L)×1000mm(W)×600mm(H) 2000mm(L)×750mm(W)×750mm(H)
Conveyor Height	848mm
Conveyor Load	200kg
Throughput	1800BPH
DR Wire Resolution	40AWG
DR Steel Penetration	40mm
CT Spatial Resolution	2mm line pair
Display Monitor	Color monitor / High resolution of 1920×1080

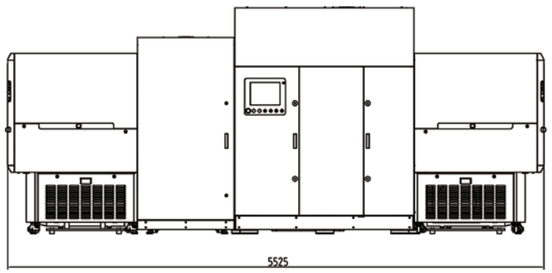
Image Processing System

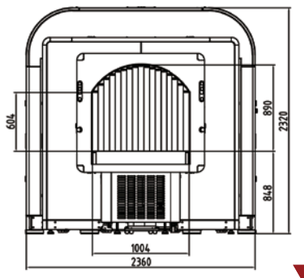
DR Image Processing	Color / BW, Negative, Edge enhancement, General enhancement, Organic stripping, Inorganic stripping, High-energy Penetration, Pseudo-color, etc.
3D Image Processing	Color / BW, Negative, Edge enhancement, Super penetration, Organic stripping, Inorganic stripping, 3D mark, 3D measurement, Threat single display, etc.
ROI & Zoom	Selectable image zoom regions, 1~64 times enlargement
Data Storage Capacity	Over 10,000 images

Installation Data

Dimensions / Weight	5525mm(L)×2360mm(W)×2320mm(H) / <7500kg
Operating Temperature / Humidity	0℃ ~ +40℃ / 5% ~ 95% (non-condensing)
Storage Temperature / Humidity	-40℃ ~ +60℃ / 5% ~ 95% (non-condensing)
Power Supply	Three-phase, 380VAC (-15% ~ +10%), 50Hz / 60Hz±3Hz
Power Consumption	12kVA

Note: Image performance specifications are based on test materials complying with CAAC standard.





Health and Safety

X-ray Leakage

Conform to all the radiation protection standards recommended by IAEA, ICRP and WHO

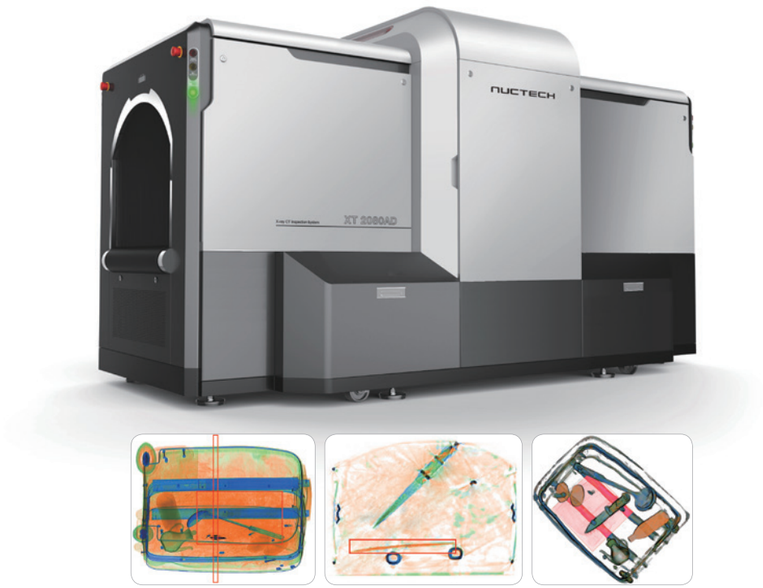
System Functions

Date / Time display, Luggage counter, User management, System-on timers, Power-on self-test, Image Storage and query, Built-in diagnosis.

NUCTECH™ XT2080AD

X-ray CT Inspection System

ECAC EDS STANDARD 3



NUCTECH™ XT2080AD is a newly developed CT (Computed Tomography) inspection system developed by NUCTECH COMPANY LIMITED. The system innovatively combines dual energy material discrimination technology with spiral CT technology. With multidimensional information acquired by the system, it realizes automated explosives / liquid explosives / narcotics detection and alarms with a higher probability of detection and a lower false alarm rate.

Designed with a larger tunnel size and a higher throughput, the XT2080AD is an ideal security solution for airports, Customs, stations, government buildings, public events, etc.

Technical Features

- Automated detection of various contraband like explosives, liquid explosives and narcotics, satisfying security needs for airports, Customs, etc.
- Discriminates different materials with higher probability of detection and lower false alarm rates, achieved CAAC and ECAC EDS Std.3.
- Inspect objects in a 360-degree view, free of blind corners and identify contraband easier and with a more intuitive image.
- Easier to detect contraband concealed in layers or placed at a particular angle.
- Generates high-resolution DR images, and identifies small thin objects like matches and lighter cores.
- With dual-energy CT technology, material information is acquired to colorize different materials with different colors in 3D images.
- Achieve the TIP in 3D images and provides effective methods for training and evaluating operators.
- Realizes remote resolutions, operations and diagnoses and shares data between different areas with the help of cloud computing technology.
- Modular design enables easy replacement of key components and convenient maintenance to reduce time and labor.
- XT2080AD provides 3D image processing functions such as 3D measurement, 3D mark, 3D super penetration, etc., helping to make accurate decisions more effectively and efficiently.

Technical Data

General Specifications

Tunnel Dimensions	Max. Width: 754mm, Max. Height: 635mm
Max. Baggage Size	2000mm(L)×750mm(W)×410mm(H)
Conveyor Height	675mm
Conveyor Load	200kg
Throughput	860BPH
DR Wire Resolution	40AWG
DR Steel Penetration	40mm
CT Pixel Resolution	2mm line pair
Display Monitor	Color monitor / High resolution of 1920×1080

Image Processing System

DR Image Processing	Color / BW, Negative, Edge enhancement, General enhancement, Organic stripping, Inorganic stripping, High-energy Penetration, Pseudo-color, etc.
3D Image Processing	Color / BW, Negative, Edge enhancement, Super penetration, Organic stripping, Inorganic stripping, 3D mark, 3D measurement, Threat single display, etc.
ROI & Zoom	Selectable image zoom regions, 1~64 times enlargement
Data Storage Capacity	Up to 10,000 images

Health and Safety

X-ray Leakage

Conform to all the radiation protection standards recommended by IAEA, ICRP and WHO

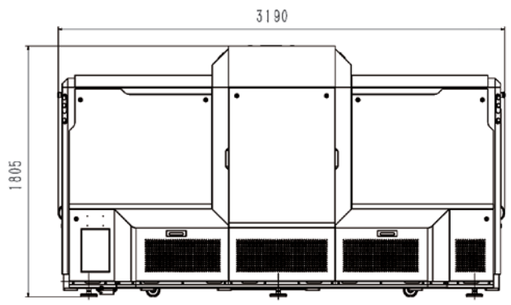
System Functions

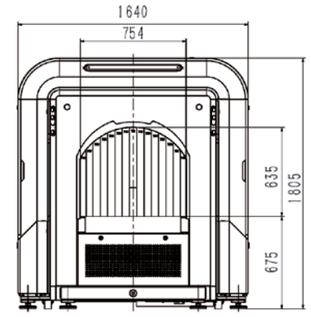
Date / Time display, Luggage counter, User management, System-on timers, Power-on self-test, Image Storage and query, Built-in diagnosis.

Installation Data

Dimensions / Weight	3190mm(L)×1640mm(W)×1805mm(H) / 2700kg
Operating Temperature / Humidity	0℃ ~ +40℃ / 5% ~ 95% (non-condensing)
Storage Temperature / Humidity	-40℃ ~ +60℃ / 5% ~ 95% (non-condensing)
Power Supply	220VAC / 110VAC (-15% ~ +10%), 50Hz / 60Hz±3Hz
Power Consumption	3.3kVA

Note: Image performance specifications are based on test materials complying with CAAC standard.





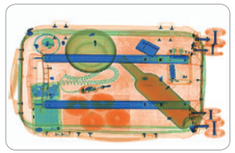
NUCTECH™ Kylin MV

X-ray Inspection System

ECAC EDSCB STANDARD C2

NUCTECH™ Kylin MV is a newly developed multi-view X-ray Inspection System developed by NUCTECH COMPANY LIMITED. The system innovatively combines dual-energy material discrimination technology with multi-view scanning technology. With multidimensional information acquired by the system, it realizes automated explosives / liquid explosives / narcotics detection and alarms with a higher probability of detection and lower false alarm rates.

Designed with a larger tunnel size, a higher throughput, a lower noise and a lower cost, Kylin MV is an ideal security solution for airports, Customs, critical infrastructures, governmental buildings, public activities, etc.



Technical Features

- Automated detection of various contraband like explosives, liquid explosives and narcotics, satisfying security needs for airports, Customs, etc.
- Discriminates different materials with higher probability of detection and lower false alarm rates, achieved ECAC EDSCB C2.
- Generates high-resolution DR images, inspects objects in double views, reduces the effect of overlapping and identifies contraband easier and with a more intuitive image.
- With multi-view scanning technology, material information is acquired to colorize different materials with different colors in DR images.
- Provides TIP for training and evaluating operators.
- Realizes remote resolutions, operations and diagnoses and shares data between different areas with the help of cloud computing technology.
- Modular design enables easy replacement of key components and convenient maintenance to reduce time and labor.

Technical Data

General Specifications

Tunnel Dimensions	Max. Width: 620mm, Max. Height: 420mm
Max. Baggage Size	2000mm(L)×620mm(W)×420mm(H)
Conveyor Height	690~800mm
Conveyor Load	160kg
Throughput	900TPH
DR Wire Resolution	40AWG
DR Steel Penetration	40mm
Display Monitor	Color monitor / High resolution of 1920×1080

Image Processing System

DR Image Processing	Color / BW, Negative, Edge enhancement, General enhancement, Organic stripping, Inorganic stripping, High-energy Penetration, Pseudo-color, etc.
ROI & Zoom	Selectable image zoom regions, 1~64 times enlargement
Data Storage Capacity	Up to 50,000 images

Health and Safety

X-ray Leakage

Conform to all the radiation protection standards recommended by IAEA, ICRP and WHO

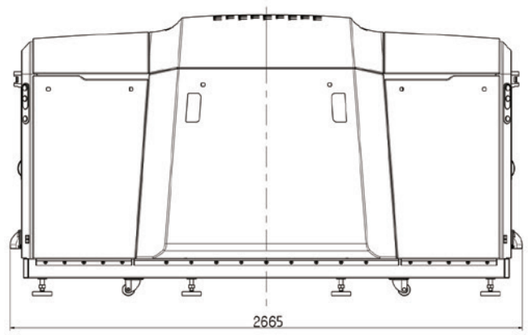
System Functions

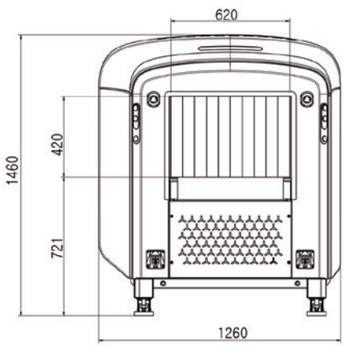
Date / Time display, Baggage counter, User management, System-on timers, Power-on self-test, Image Storage and query, Built-in diagnosis.

Installation Data

Dimensions / Weight	2665mm(L)×1260mm(W)×1460mm(H) / 1400kg
Operating Temperature / Humidity	0℃ ~ +40℃ / 5% ~ 95% (non-condensing)
Storage Temperature / Humidity	-40℃ ~ +60℃ / 5% ~ 95% (non-condensing)
Power Supply	220VAC / 110VAC (-15% ~ +10%), 50Hz / 60Hz±3Hz
Power Consumption	1.9kVA

Note: Image performance specifications are based on test materials complying with CAAC standard.





NUCTECH™ CX6040D

X-ray Inspection System

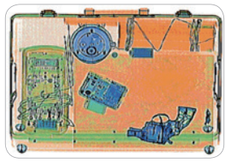
CSA ECAC STAC

The NUCTECH™ CX6040D X-ray Inspection System is our new generation dual view dual-energy X-ray inspection machine for hand-held baggage, small checked luggage and parcels.

It employs a dual view design. Images of each view are shown on a dedicated monitor so that dangerous objects and contraband hidden beneath overlapping areas are more likely to be found and located.

The CX6040D stands out with more modern and ergonomic design for efficient and professional X-ray screening. The tunnel dimensions of 620mm width and 420mm height are perfectly suitable for baggage inspection at airports, railway stations, Customs, ports and stadiums, etc.

Combined with unsurpassed operation ergonomics, its reliability and safety can provide excellent image quality and advanced material classification. The CX6040D offers explosive and drug auto detection as options.



Technical Features

- Based on dual-view advanced technology that meets high-level security and operational effectiveness requirements.
- High image quality with wire resolution of 40AWG and steel penetration of 38mm.
- X-ray leakage around the equipment is close to natural background levels. Meets all published international health and safety standards.
- Automatic detection and alarm for explosives and drugs.
- Supports systematic, continuous and local zoom functions for flexible and quick enlargement of scanned images.
- Images can be saved in common image formats (BMP, JPG and PNG) and transferred to USB storage devices.
- Ergonomic key board and use interface design ensures the efficiency and professionalism of X-ray screening operations.
- Modular design and construction combined with a built-in diagnostic facility guarantee efficient equipment maintenance.

Technical Data

General Specifications

Dual-view Imaging	Both vertically and horizontally projected images
Tunnel Dimensions	620mm (W) × 420mm (H)
Conveyor Speed	0.2m/s
Conveyor Height	680mm
Max. Load	160kg

Image Performance

Wire Resolution	40AWG
Steel Penetration	38mm

Image Processing System

Image Enhancement	Color / BW, negative, high / low penetration, organic / inorganic stripping, general enhancement, multi-absorptivity, and suspect material enhancement, etc.
Material Classification	According to atomic number signatures
ROI & Zoom	Step / step less zoom, enlargement up to 32 times
Image Recall	Preceding images recallable
Image Storage Capability	Up to 50,000 images

System Functions

Standard Functions	Time / date display, counters, user management, system-on / X-ray-on timers, power on self-test, built-in diagnostic facilities, dual-direction scanning, system log, system standby and training, etc.
Optional Functions	Explosives / narcotics detections, high-density area alert, threat image projection(TIP)

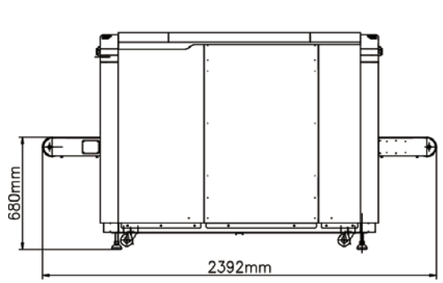
Health and Safety

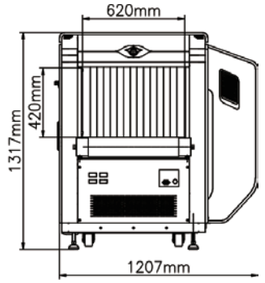
X-ray Leakage	Less than 1μSv/hour (5cm from the housing), complying with all published international health and safety standards
Film Safety	Guaranteed for high speed film up to ASA / ISO1600(33DIN)

Installation Data

Dimensions	2392mm(L)×1207mm(W)×1317mm(H)
Weight	1000kg
Operating Temperature / Humidity	0° C ~ +40° C / 5%~95% (non-condensing)
Storage Temperature / Humidity	-40° C ~ +60° C / 5%~95% (non-condensing)
Power Supply	220VAC / 110VAC (-15%~+10%), 50Hz / 60Hz±3Hz
Power Consumption	1.2kVA

Note: Image performance specifications are based on test materials complying with CAAC standard.





NUCTECH™ CX100100D

X-ray Inspection System

The NUCTECH™ CX100100D X-ray Inspection System is a new generation dual view dual-energy X-ray inspection machine for inspecting large luggage, baggage and small cargo. It uses a dual view design and images of each view are displayed on a dedicated monitor. Dangerous objects and contraband hidden beneath overlapping areas are more easily found and located. It stands out from others on the market with a more modern and ergonomic design for efficient and professional X-ray screening. With tunnel dimensions of 1010mm width and 1005mm height, it is perfect for baggage inspection at airports, railway stations, Customs, ports and stadiums, etc.

The CX100100D combined with unsurpassed operation ergonomics, reliability and safety can provide excellent image quality and advanced material classification. There are also explosive and drug auto detection options.

Technical Features

- Based on dual-view advanced technology that meets high-level security and operational effectiveness requirements.
- High image quality with wire resolution of 38AWG and steel penetration of 35mm.
- X-ray leakage around the equipment is close to natural background levels, which meets all published international health and safety standards and ensures radiation protection for operators as well as the public.
- Automatic detection and alarm for explosives and drugs.
- Support systematic, continuous zoom and magnifier functions to enlarge images.
- Images can be saved in common image formats (BMP, JPG and PNG) and be transferred to USB storage devices .
- Ergonomic keyboard and operator interface design ensures the efficiency and professionalism of x-ray screening operations.
- Modular design and construction combined with a fully built-in diagnostic facility guarantee the efficiency of equipment maintenance.

Technical Data

General Specifications

Dual-view Imaging	Both vertical and horizontal projecting images
Tunnel Dimensions	1010mm(W)×1005mm(H)
Conveyor Speed	0.2m/s
Conveyor Height	300mm
Max. Load	200kg

Image Performance

Wire Resolution	38AWG
Steel Penetration	35mm

Image Processing System

Image Enhancement	Color / BW, negative, high / ow penetration, organic / inorganic stripping, general enhancement, multi-absorptivity, and suspect material enhancement, etc.
Material Classification	According to atomic number signatures
ROI & Zoom	Step / stepless zoom, up to 32 times enlargement
Image Recall	Preceding images recallable
Image Storage Capability	Up to 100,000 images

System Functions

Standard Functions	Time / date display, counters, user management, system-on / X-ray-on timers, power on self-test, built-in diagnostic facilities, dual-direction scanning, system log, system standby and training, etc.
Optional Functions	Explosives / narcotics detections, high-density area alert, threat image projection (TIP)

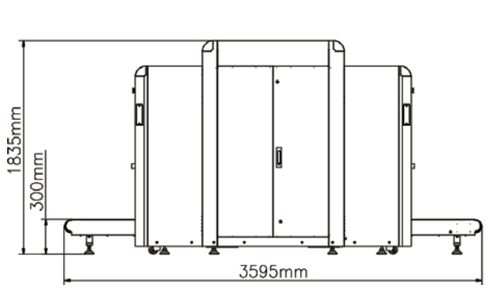
Health and Safety

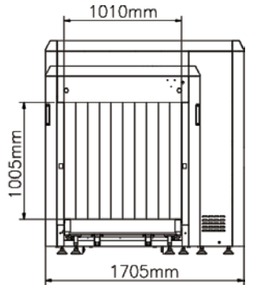
X-ray Leakage	Less than 1μSv/hour (5cm from the housing), complying with all published international health and safety standards
Film Safety	Guaranteed for high speed film up to ASA / ISO1600 (33DIN)

Installation Data

Dimensions	3595mm(L)×1705mm(W)×1835mm(H)
Weight	1400kg
Operating Temperature / Humidity	0° C ~ +40° C / 5%~95% (non-condensing)
Storage Temperature / Humidity	-40° C ~ +60° C / 5%~95% (non-condensing)
Power Supply	220VAC / 110VAC (-15%~+10%), 50Hz / 60Hz±3Hz
Power Consumption	1.5kVA

Note: Image performance specifications are based on test materials complying with CAAC standard.





NUCTECH™ CX130130D

X-ray Inspection System

The NUCTECH™ CX130130D X-ray Inspection System is a new generation dual-view dual-energy X-ray inspection machine large luggage, baggage and small cargoes.

It employs a dual-view design with images of each view displayed on a dedicated monitor. Dangerous objects and contraband hidden beneath overlapping areas are more likely to be discovered. It stands out from others with a more modern and ergonomic design for efficient and professional X-ray screening. Tunnel dimensions of 1310mm width and 1318mm height make it perfect for inspections of large luggage and pallet cargo at airports, Customs, railway stations, ports, logistics companies, warehouses, etc.

The CX130130D combined with unsurpassed operation ergonomics, reliability and safety can provide excellent image quality and advanced material classification. Options include explosive and drug auto detection.

Technical Features

- State-of-the-art technology for superior image quality with wire resolution of 38AWG and steel penetration of up to 50mm.
- Based on dual-view advanced technology meeting high level security and operational effectiveness demands.
- X-ray leakage around the equipment is close to natural background levels and meets all published international health and safety standards.
- Automatic detection and alarm for explosives and drugs.
- Support systematic, continuous and local zoom functions for flexible and quick enlargement of scanned images.
- Images can be saved in standard image formats (BMP, JPG and PNG) and transferred to USB storage devices.
- Ergonomic keyboard and user interface design ensures the efficiency and professionalism of X-ray screening operations.
- Modular design and construction combined with a fully built-in diagnostic facility guarantee efficient equipment maintenance.

Technical Data

General Specifications

Dual-view Imaging	Both vertically and horizontally projected images
Tunnel Dimensions	1310mm(W)×1318mm(H)
Conveyor Speed	0.2m/s
Conveyor Height	350mm
Max. Load	320kg

Image Performance

Wire Resolution	38AWG
Steel Penetration	50mm

Image Processing System

Image Enhancement	Color / BW, negative, high / low penetration, organic / inorganic stripping, general enhancement, multi-absorptivity, and suspect material enhancement, etc.
Material Classification	According to atomic number signatures
ROI & Zoom	Step / stepless zoom, up to 32 times enlargement
Image Recall	Preceding images recallable
Image Storage Capability	Up to 100,000 images

System Functions

Standard Functions	Time / date display, counters, user management, system-on / X-ray-on timers, power on self-test, built-in diagnostic facilities, dual-direction scanning, system log, system standby and training, etc.
Optional Functions	Explosives / narcotics detections, high-density area alert, threat image projection (TIP)

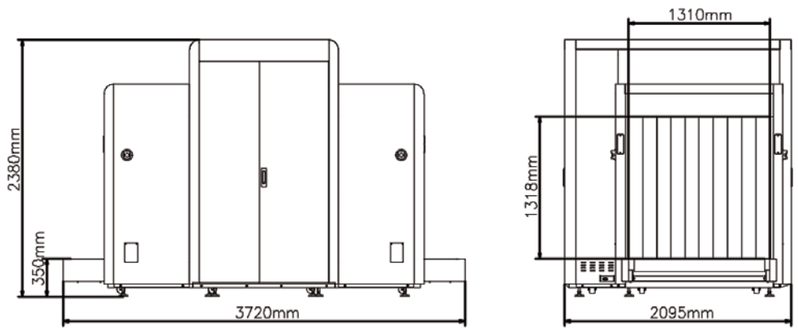
Health and Safety

X-ray Leakage	Less than 1μSv/hour (5cm from the housing), complying with all published international health and safety standards
Film Safety	Guaranteed for high speed film up to ASA / ISO1600 (33DIN)

Installation Data

Dimensions	3720mm(L)×2095mm(W)×2380mm(H)
Weight	2490kg
Operating Temperature / Humidity	0° C ~ +40° C / 5%~95% (non-condensing)
Storage Temperature / Humidity	-40° C ~ +60° C / 5%~95% (non-condensing)
Power Supply	220VAC / 110VAC(-15%~+10%), 50Hz / 60Hz±3Hz
Power Consumption	1.8kVA

Note: Image performance specifications are based on test materials complying with CAAC standard.



NUCTECH™ CX180180D

X-ray Inspection System

NUCTECH™ CX180180D X-ray Inspection System is a new generation dual view dual-energy X-ray inspection machine for large parcels as well as pallet cargo.

With its dual view design, images of each view are shown on a dedicated monitor. Dangerous objects and contraband hidden beneath overlapping areas are more likely to be found and located.

It stands out with a more modern and ergonomic design for efficient and professional X-ray screening. With tunnel dimensions of 1850mm width and 1806mm height, it is perfectly suitable for inspecting large luggage, pallet cargoes at airports, Customs, railway stations, ports, logistics companies and warehouses, etc.

Technical Features

- State-of-the-art technology for superior image quality with wire resolution of 36AWG and steel penetration of up to 50mm.
- Threat Image Projection (TIP), an always-ready X-ray system, provides a practical solution for operator performance monitoring and training and effectively reduces missed threats.
- X-ray leakage around the equipment is close to natural background levels to meet all published international health and safety standards.
- Automatic detection and alarm of explosives and drugs.
- Support systematic, continuous and local zoom functions for flexible and quick enlargement of scanned images.
- Images can be saved in common image formats (BMP, JPG and PNG) and be transferred to USB storage devices.
- Ergonomic keyboard and user interface design ensures the efficiency and professionalism of X-ray screening operations.
- Modular design and construction combined with a fully built-in diagnostic facility guarantee the efficiency of equipment maintenance.

Technical Data

General Specifications

Dual-view Imagin	Both vertical and horizontal projecting images
Tunnel Dimensions	1850mm(W)×1806mm(H)
Conveyor Speed	0.2m/s
Conveyor Height	320mm
Max. Load	2000kg

Image Performance

Wire Resolution	36AWG
Steel Penetration	50mm

Image Processing System

Image Enhancement	Color / BW, negative, high / low penetration, organic / inorganic stripping, general enhancement, multi-absorptivity, and suspect material enhancement, etc.
Material Classification	According to atomic number signatures
ROI & Zoom	Step / stepless zoom, up to 32 times enlargement
Image Recall	Preceding images recallable
Image Storage Capability	Up to 100,000 images

System Functions

Standard Functions	Time / date display, counters, user management, system-on / X-ray-on timers, power on self-test, built-in diagnostic facilities, dual-direction scanning, system log, system standby and training, etc.
Optional Functions	Explosives / narcotics detections, high-density area alert, threat image projection (TIP)

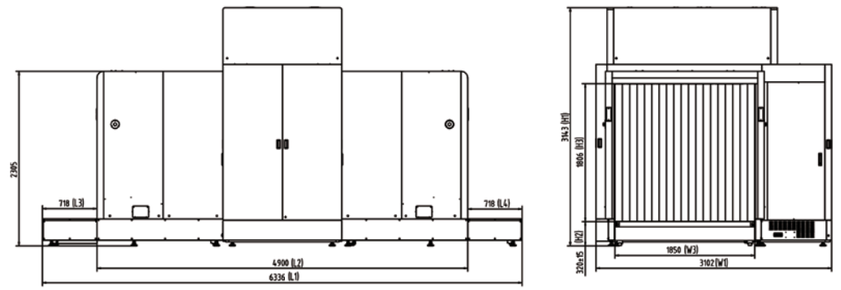
Health and Safety

X-ray Leakage	Less than 1μSv/hour (5cm from the housing), complying with all published international health and safety standards
Film Safety	Guaranteed for high speed film up to ASA / ISO1600 (33DIN)

Installation Data

Dimensions	6336mm(L)×3102mm(W)×3143mm(H)
Weight	5315kg
Operating Temperature / Humidity	0° C ~ +40° C / 5%~95% (non-condensing)
Storage Temperature / Humidity	-40° C ~ +60° C / 5%~95% (non-condensing)
Power Supply	220VAC / 110VAC (-15%~+10%), 50Hz / 60Hz±3Hz
Power Consumption	2.5kVA

Note: Image performance specifications are based on test materials complying with CAAC standard.



NUCTECH™ MW1000AA

Body Inspection Device

NUCTECH™ MW1000AA is a high-performance, efficient people screening solution designed and manufactured by NUCTECH. Without a physical "pat down", it can quickly screen passengers using safe millimeter wave (MMW) imaging technology and automatically detect concealed objects.

It requires only a single stationary position during a two-second scan. No special movement is required.

The MW1000AA features, high throughput and unique privacy protection. It is adaptable and suitable for personal security inspections for civil aviation, customs, transportation stations, government buildings, commercial buildings, military bases, events/meetings and other location requiring safety checkpoints.

Technical Features

- Active millimeter waves imaging technology. No emission of ionizing radiation.
- Locate and highlight concealed threats automatically. Meets ECAC SSc, Type A standard 1&2, CAAC A Level.
- Complete a single inspection within 4 seconds.
- Generic image displayed.
- Effective detection of metal/non-metal weapons, explosives, liquids, narcotics, items concealed under clothing.
- Easy to fit into most checkpoints.
- Compatible with stand-alone operation, remote operation, mobile operation and an integrated solution.

Technical Data

General Specification

Inspection Mode	Non-contact
Scan Time	2s
Throughput	400p/h
Standard Operator Number	1
Imaging Capabilities	Metal / non-metal weapons, explosives, drugs, liquids, etc.

Imaging Processing System

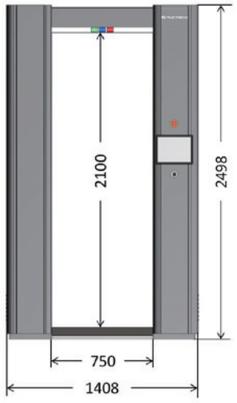
Automatic Threat Recognition	ECAC SSc, Type A Std 1&2
Privacy Protection	Yes
Image Processing (optional)	Contrast & brightness adjustment, reverse, pseudo color, privacy protection, etc.

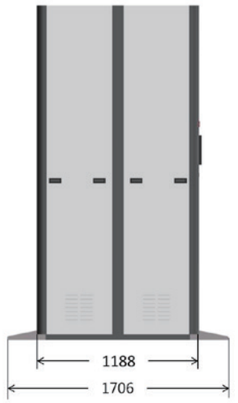
Installation Data

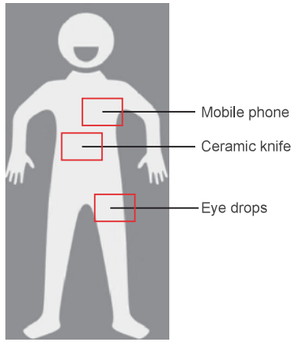
Dimensions	2498mm(H)×1408mm(W)×1706mm(D)
Tunnel Dimensions	2100mm(H)×750mm(W)×1188mm(D)
Weight	550kg
Power Supply	220VAC / 110VAC(-15% ~ +10%), 50Hz / 60Hz±3Hz
Power Consumption	1 kW (Peak)
Operating Temperature / Humidity	0℃~ +40℃ / 0%~ 93% (non-condensing)
Storage Temperature / Humidity	-20℃~ +55℃ / 0%~ 93% (non-condensing)

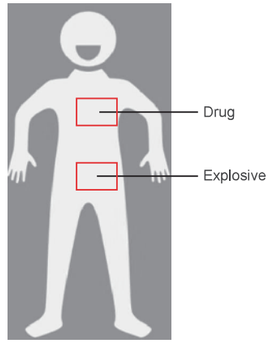
Advanced Function

Optional Feature	Remote control, centralized detection & management, portable inspection etc.
Certificates	ECAC SSc Type A std. 1&2, CAAC A Level









NUCTECH™ LS1516BA

Liquid Security Inspection System

ECAC LEDS TYPE B STANDARD 3
ECAC LEDS TYPE C STANDARD 2

The NUCTECH™ LS1516BA is the top proven and successful machine used for the screening of liquids throughout the world, with hundreds of installations at airports, mass transit stations, critical infrastructures and big events, etc.

Working with the latest advanced dual-energy Computed Tomography (CT) technology, and combined with a creative and ergonomic design, the LS1516BA is capable of detecting flammable, explosive and erosive liquids as well as non- explosive precursors reliably, precisely, effectively, safely and economically.

In testing, the LS1516BA showed a very low false alarm rate and meets the ECAC LEDS Type B standard 3 and Type C standard 2 for Liquid Explosive Detection System (LEDS).

Technical Features

- Identify liquids by 2-dimensional signature of atomic number and density.
- Threat liquids library is extendable and customizable.
- Screening liquids in commercial containers of any material and shape in non-intrusive way.
- Individual container screening recommended, while multiple small containers checked in one cycle optional for high throughput.
- Efficient operating and minimal operator training expected with automatic analysis of threat liquids and friendly touch-screen user interface.
- No consumables and routine calibrations required.

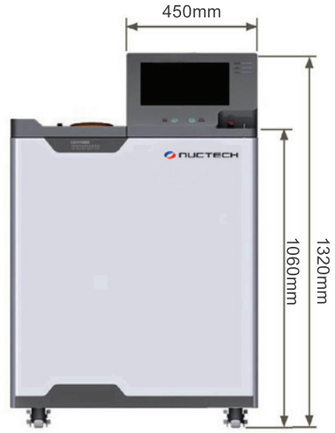
Technical Data

General Specification

Technical Principle	Dual-energy Computed Tomography
Detectable Threat Liquids	Flammable, erosive, explosive liquids as well as non-explosive precursors for later mixing
	Meet ECAC LEDS Type B Standard 3
	Meet ECAC LEDS Type C Standard 2
Readout	Analysis result: Pass (in green) / Alarm (in red) / Unable to analyze (in orange)
	X-ray conventional and CT images indicate suspicious concealments inside the liquids
Multiple Security Level	A flexible adjustment tool to make a trade-off between threats detection performance and false alarm rate, which may rely on the assessment of real risk level
Communication Interface	USB and Ethernet network
Network Applications (optional)	Remote query & monitor, and centralized management system

Products

Concept of Operations	Screening individual container or multiple small containers in nonintrusive way
Max. Liquid Container Size	160mm (Diameter) × 500mm(Height)
Data Storage	At least 70000 items' inspection results, including the automatic analysis results, X-ray conventional and CT images, user ID, time and date, etc.
Dimensions(L×W×H)	850mm×550mm×1320mm
Weight	350kg
Operating Temperature / Humidity	0°C ~ +40°C / 5% ~ 95% (non-condensing)
Storage Temperature / Humidity	-40°C ~ +60°C / 5% ~ 95% (non-condensing)
Power Supply	220V / 110VAC (-15% ~ +10%), 50Hz / 60Hz±3Hz
Power Consumption	0.6kVA



NUCTECH™ TR2000DC

Desktop Explosives and Narcotics Detector

The NUCTECH™ TR2000DC desktop explosives and narcotics detector can identify the presence and type of trace substances from explosives and illicit drugs that is collected from sampling baggage, vehicles, and even people. Adopting a reliable trace detection technology based on Ion Mobility Spectrometry, the TR2000DC provides high sensitivity and flexibility in detecting a wide range of explosives and narcotics in a fast analytical cycle. It is ideal for all security applications and customs screening applications.

Technical Features

- High sensitivity and flexible detection of a wide range of explosives and narcotics with an updatable substance library.
- Non-radioactive ionization source with no extra manual calibration.
- Automatic internal calibration with no extra manual operation.
- Enabling both particulate and vapor sampling effectively.
- Quick analysis within 8 seconds and fast cleaning to enable higher transmission.
- Low false alarm rate due to new detection algorithm and dopant.
- Simplified touch-screen operation with a graphical user interface and minimized training required.
- Standard Ethernet and USB port for data acquisition and software update.
- Lightweight, rugged design and easy to transport

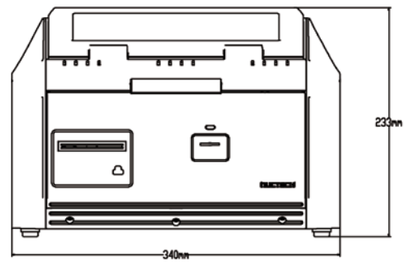
Technical Data

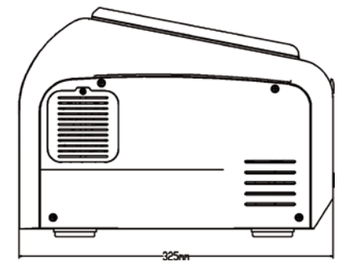
General Specifications

Detection Technology	Ion Mobility Spectrometry
Ionization Technology	Non-radioactive ionization source
Positive & Negative Ions Analyzing Mode	Simultaneous explosives & narcotics detection in dual modes
Detectable Explosives	TNT, C4, Tetryl, DNT, NG, PETN, RDX, Semtex, HMX, HMTD, AN, TATP and black powder, etc.
Detectable Narcotics	Cocaine, Heroin, Morphine, Amphetamine, MA, MDMA, THC, PCP, LSD, Procaine, Ketamine, Ephedrine, Dilantin, etc.
Sensitivity	Picogram to Nanogram level
Sampling Method	Particulate wiping collection
Readout	Automatic Pass/Alarm with credibility indicator Substances identification with characteristic spectrum display Configurable visual and audio alarm
Communication Interface	USB and Ethernet LAN and VGA

Products

Type	Desktop
User Interface	10.4” touch-screen LCD
Warm-up Time	20 minutes typical
Analysis Time	8 seconds typical
Printer	Built-in printer
Dimensions	340mm(L)×325mm(W)×233mm(H)
Operating Temperature	-20°C ~ +55°C
Weight	12kg
Power Supply	220VAC / 110VAC (-15%~+10%), 50 Hz / 60Hz±3Hz





NUCTECH™ RT1003EB

Liquid Security Inspector

The NUCTECH™ RT1003EB Liquid Security Inspector can analyze and identify most dangerous materials in various containers. Based on Raman spectroscopy for molecular identification, it provides a security check for unknown liquids rapidly and accurately with a very low false alarm rate. It is a new generation of RT series product combining non-transparent detection for screening opaque containers, such as metal containers, black containers etc.

A uniquely designed two-sided door enables the RT1003EB to work at dual security inspection channels at the same time, improving the efficiency of security checkpoints. With the outstanding performance approved by the ECAC, the RT1003EB Liquid Security Inspector can be a powerful solution at airports for inspecting liquids, aerosols and gels (LAGs) in all types of containers.

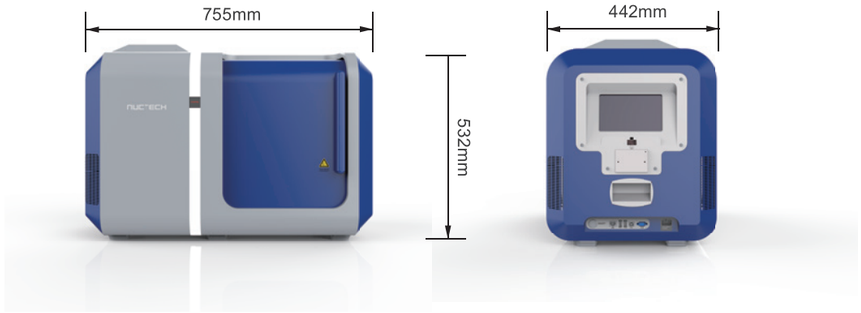
Technical Features

- Accurate and rapid identification of suspicious liquids.
- Extensible library-support new addition by users.
- Reliable results typically in around 5 seconds.
- Dual-channel Design.
- Non-transparent container detection.
- Adaptive packaging recognition function.
- Non-destructive and non-radioactive.
- Standard USB and Ethernet interface for data transfer and software updates.
- User-Friendly touch-screen with graphical interface.

Technical Data

General Specification

Technology Principle	Raman spectroscopy
Detectable Threat Liquids	Flammables, explosives and precursors, toxic reagents, strong oxidizing and corrosive liquids, etc.
Open Database	Extensible library, support new addition by users
Types of Container	Glass, plastic, paper, metal (Tetra Pak, foil, can, tin, aerosol)
Readout	Clear / Alarm (Liquid Security Information) Identification data with Raman spectrum Configurable visual and audible alarm
Startup Time	<60 seconds
Inspection Time	<5 seconds
Communication Interface	USB and Ethernet LAN
User Interface	7” touch-screen LCD
Operation Temperature	0°C ~ +40°C
Power Supply	220V / 110VAC(-15% ~ +10%), 50Hz / 60Hz ± 3Hz
Container Size	Shape: 35cm height and 20cm width (or diameter)
Volume	2mL to 3L
Dimensions	755mm(L)×442mm(W)×532mm(H)
Weight (Including Battery)	27kg
Certification	Meets ECAC type A and B standard 3



NUCTECH™ MXT80

Mobile Inspection Checkpoint

NUCTECH™ MXT80 is a newly developed CT (Computed Tomography) inspection system developed by NUCTECH COMPANY LIMITED. The system innovatively combines dual energy material discrimination technology with spiral CT technology. With multidimensional information acquired by the system, it realizes automated explosives/liquid explosives/ narcotics detection and alarms with a higher probability of detection and a lower false alarm rate.

Designed with a larger tunnel size and a higher throughput, the MXT80 is an ideal security solution for airports, Customs, stations, government buildings, public events, etc.

Technical Features

- Selection of world class Germany Man medium trucks, excellent performance, adapt to the complex conditions. There are two power supply modes, city power and generator, to meet the demand of rapid response.
- Generating high-resolution DR images and identifying tiny thin objects like matches and lighter cores.
- With the dual-energy CT technology, material information is acquired to colorize different materials with different colors in 3D images.
- MXT80 exclusively provides 3D image processing functions such as 3D measurement, 3D mark, 3D super penetration, etc., helping making decisions more effectively and efficiently.
- Inspecting objects in 360 degrees free of blind corners and identifying the contraband more easily with a more intuitive image.
- Easier to detect the contraband concealed in interlayers or placed in a particular angle.
- Automated detection of various contraband like explosives, liquid explosives and narcotics, satisfying security needs for airports, customs, etc.

Technical Data

General Specifications

Tunnel Dimensions	Max. Width: 754mm, Max. Height: 635mm
Max. Baggage Size	1500mm(L)×750mm(W)×410mm(H)
Conveyor Height	700mm(entrance), 600mm(exit)
Belt Speed	0.2m/s
Wire Resolution	40AWG
DR Steel Penetration	40mm
CT Pixel Resolution	2mm line pair
Display Monitor	24'' color monitor / High resolution of 1920×1080

System Function

Date / Time display, Baggage counter, User management, System-on timers, Power-on self-test, Image storage and query, Built-in diagnosis.

Image Processing System

DR Image Processing	Color / BW, Negative, Edge enhancement, General enhancement, Organic stripping, Inorganic stripping, High-energy Penetration, Pseudo-color, etc.
3D Image Processing	Color / BW, Negative, Edge enhancement, Super penetration, Organic stripping, Inorganic stripping, 3D mark, 3D measurement, Threat single display, etc.
ROI & Zoom	Selectable image zoom regions, 1~64 times enlargement
Data Storage Capacity	Up to 10,000 images

Installation Data

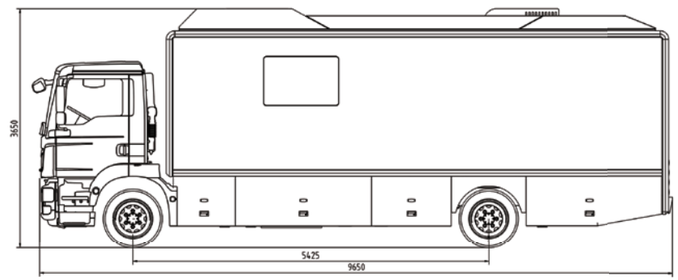
Dimensions / Weight	9650mm(L)×2500mm(W)×3650mm(H) / 15T
Operating Temperature / Humidity	-25℃ ~ +45℃ / 5% ~ 100% (non-condensing)
Storage Temperature / Humidity	-30℃ ~ +55℃ / 5% ~ 100% (non-condensing)
Mains Supply	Three-phase, 380VAC, 50Hz, cable length of 50m
Built-in Generator Supply	Single-phase, 220VAC, 50Hz
Power Consumption	15kVA

Health and Safety

X-ray Leakage	Conform to all the radiation protection standards recommended by IAEA, ICRP and WHO

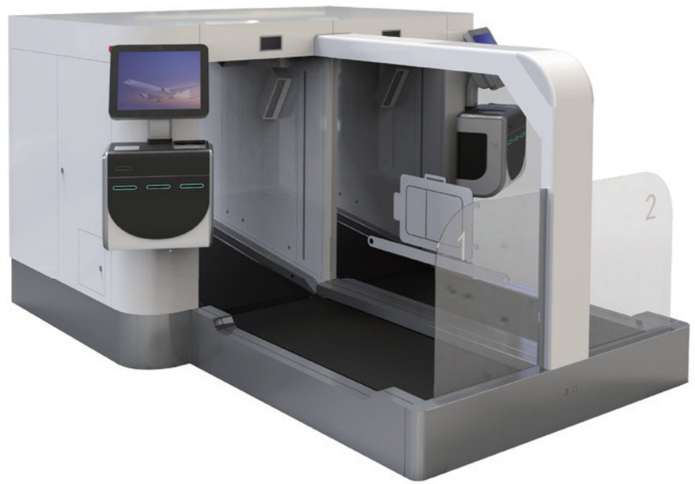
Chassis Data

Vehicle Standard	MAN TGM15.290
Engine	Diesel
Emission Standard	Europe VI



NUCTECH™ WeDrop

Self-Service Bag Drop System



NUCTECH™ WeDrop is a newly developed side-mounted self-service bag drop system. Its concise appearance and user-friendly operating interface greatly improve the efficiency and service quality of airport baggage check process.

WeDrop can automatically detect over-sized/overweight baggage and allow self-pay for overweight baggage, which makes the baggage check process easier and more standardized. It integrates intrusion detection system which ensure the safety of usage.

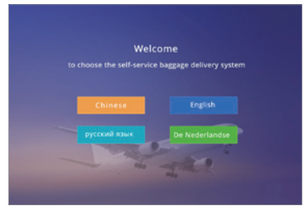
Technical Features

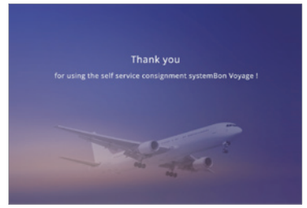
- **Human oriented design**
  The front conveyor is only 200mm height from the ground. Lower conveyor belt combined with side-mounted design make it easier for passengers to place their luggage. The human machine interaction interface apply touch screen and also support multi-languages to facilitate the operation.
- **Multi-function ID identification module**
  Built-in ID reader and scanner support recognition of ID card, passport, boarding pass and other documents. Able to interconnect with different airport information system to obtain passenger and luggage information. Adjustable rear belt height enable the interconnection with different BHS system.
- **Quick read of check luggage bar code**
  The split bar code reader is designed to quickly and accurately read the passenger's checked baggage code.
- **Auto-detect and alert of oversized/overweight baggage**
  Able to measure and weight luggage as well as detect types of luggage (soft bag, hard suitcase, baggage that do not support self-service bag drop, etc.)
- **Easy payment for overweight luggage**
  Support self-service payment for oversized luggage through UnionPay, Alipay and other customized payment method can be developed. Able to print payment receipt automatically.
- **Effective safety guarantee**
  When WeDrop is turned off, the built-in metal rolling door can be automatically locked to prevent unrelated personnel from entering. The equipment integrates light screen detection to automatically detect illegal intrusion during the operation of the equipment; if an illegal intrusion is found, the conveyor belt immediately stops and rolls back, accompanied by an sound-light alarm.

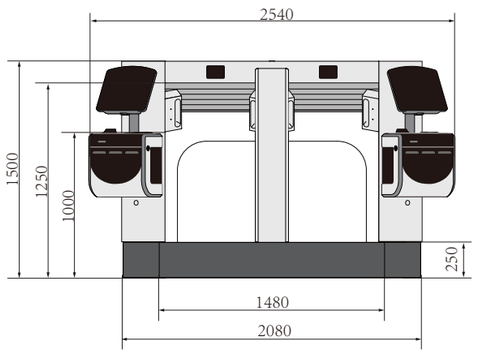
Technical Data

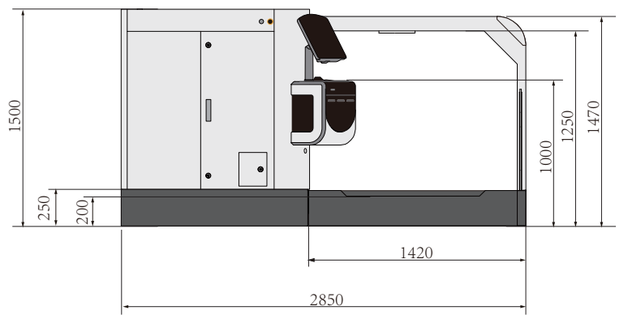
Dimensions	2850 mm (L) × 2540 mm (W) ×1500 mm (H)
Tunnel size	700 mm (W) ×1050 mm (H)
Equipment Weight	1050kg
Conveyor Load	50kg
Belt Speed	0.23-0.45m/s (adjustable)
Power Supply	Single-phase, AC 220V ± 10%
Power Consumption	2kVA
Operating Temperature	0°C-40°C
Relative Humidity	<90%

Operation interface

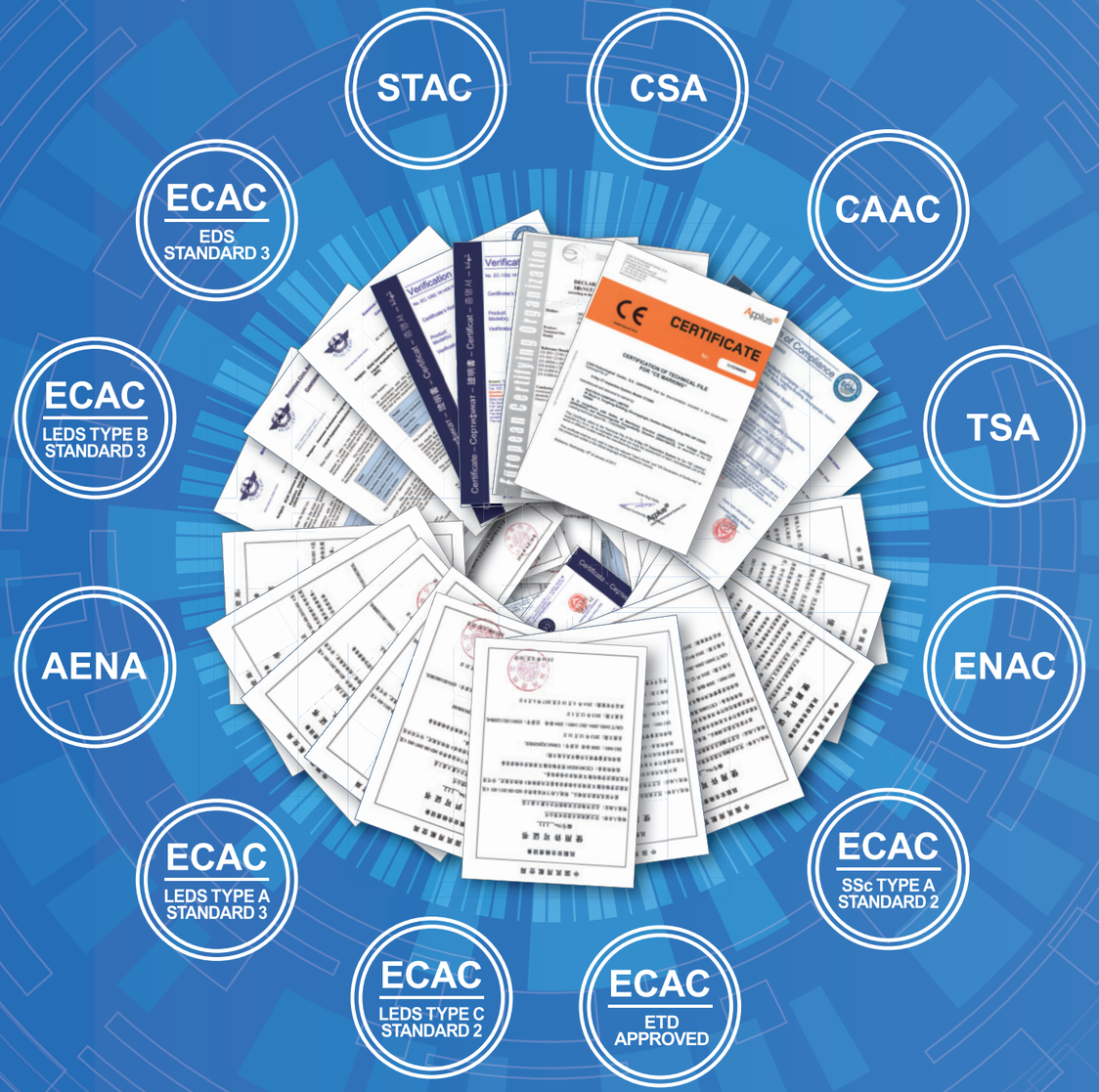








Certifications



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